Department of Architecture

College of Engineering

University of Cihan

Subject: Building Element

Course Book – second stage first semester

Lecturer's name BSc, PGdip, MSc, PhD

Dr. Muhammad hasan younis

Academic Year: 2015/2016

Course Book

1. Course name	**Building Element**
2. Lecturer in charge	**Dr. Muhammad hasan younis**
3. Department/ College	**Architecture/Engineering**
4. Contact	**e-mail: myounis@gmail.com**
5. Time (in hours) per week	**Theory: 2** **Practical:**
6. Office hours	**Sunday-Thursday (1:00pm to 2:00pm)**
7. Course code	**ARC-41121**
8. Teacher's academic profile	**Assistant professor and Phd.**
9. Keywords	
10. Course overview: This course provides an introductory overview of the various elements used in construction. After receiving an introduction into fundamental principles of structural, physical and long-term performance, students learn about element and product manufacturing techniques and how they relate to mechanical and non-mechanical properties of the various elements. Common construction methods are introduced and building details are explored.	
11. Course objective: Students have the opportunity to experience element capacity and behavior as well as construction methods in demonstrations and lab experiments. Furthermore, element applications and detailing in structural and non-structural building components are explored. Resulting from this course, students will gain a comparative knowledge of element properties and possible applications in construction and architecture.	
12. Student's obligation **Students are Required to attend class, do their homeworks and do the quizzes, they have to study after each class and will have two take two exams for the semester**	
13. Forms of teaching **The elements are explained mainly by data show and the board is used**	
14. Assessment scheme **30% homework**	

10% daysketch
5% presence
5% daily assessment
50% final exam

15. Student learning outcome:

- Comparative knowledge of element properties (physical, structural, …) for most common and advanced building elements,
- Understanding of typical and potential applications of these elements,
- Understanding of relationship between element properties and structural form,
- Ability to identify crucial problem areas in manufacture and applications of building elements,
- Understanding of importance of experimental verification of element properties.

16. Course Reading List and References:

17. The Topics: | **Lecturer's name**

Weeks No.	Topic
1-2	Foundation
3-4	Bricks
5-6	Stone and Stone masonry
7	Day Sketch
8	Concrete Blocks
9-10	Metals
11	Site Visit
12-13	Doors and Windows
14-15	Stairs and Stair Types
16	Mortars and Binders

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18. Practical Topics (If there is any)

Drawing

19. Examinations:
Sketches, composition and content written

20. Extra notes:
21. Peer review